

Attorney Docket Number 2000.605 US

In the Claims (Clean Sheet)

Please replace claims 9, 10, 13, 18 and 38 with new claims 9, 11, 13, 18 and 38 as follow:

9. A *Lawsonia intracellularis* protein, said protein comprising an amino acid sequence that is at least 70 % homologous to an amino acid sequence selected from the group consisting of SEQ ID NO: 2, SEQ ID NO: 4, a *Lawsonia intracellularis* Outer Membrane Protein having a molecular weight of 19/21 kD, said Outer Membrane Protein being obtainable by a process comprising the steps of

- a) subjecting an outer membrane preparation to SDS-PAGE
- b) excision of the 19 or 21 kD band from the gel, and an immunogenic fragment of said protein.

11. The *Lawsonia intracellularis* protein according to claim 9, said protein comprising an amino acid sequence that is at least 70 % homologous to the amino acid sequence as depicted in SEQ ID NO: 4 or an immunogenic fragment of said protein.

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13. The *Lawsonia intracellularis* Outer Membrane Protein according to claim 9, having a molecular weight of 19/21 kD, said Outer Membrane Protein being obtainable by a process comprising the steps of

a) subjecting an outer membrane preparation to SDS-PAGE

b) excision of the 19 or 21 kD band from the gel or an immunogenic fragment of said protein.

B3

18. Vaccine for combating *Lawsonia intracellularis* infections, characterized in that it comprises an immunogenically effective amount of a protein according to claim 9, and a pharmaceutically acceptable carrier.

B4

38. An immunogenic composition comprising at least one protein according to claims 9 - 15.

B5